

VZCZCXYZ0009
RR RUEHWEB

DE RUEHNE #1412/01 0820640
ZNR UUUUU ZZH
R 230640Z MAR 07
FM AMEMBASSY NEW DELHI
TO RUCPDOG/USDOC WASHDC
RUEAHLG/HQ ICE IAO WASHINGTON DC
INFO RUEHC/SECSTATE WASHDC 4157

UNCLAS NEW DELHI 001412

SIPDIS

SIPDIS

USDOC FOR 532/OEA/M. NICKSON-DORSEY/JAY HATFIELD
USDOC FOR 3131/USFCS/OIO/ANESA/KREISSL
USDOC FOR 4530/MAC/ANESA/OSA
ICE HQ FOR STRATEGIC INVESTIGATIONS
STATE FOR EB/ESP

E.O. 12958: N/A

TAGS: [ETTC](#) [ETRD](#) [BEXP](#) [IN](#)

SUBJECT: EXTRANCHECK: POST-SHIPMENT VERIFICATION: ISTRAC, BANGALORE,
LICENSE NO. D350816

REF: USDOC 07095

1. Unauthorized disclosure of the information provided below is prohibited by Section 12(c) of the Export Administration Act.

2. Acting Export Control Officer (ECO) Perry Davis and BIS FSN Prem Narayan conducted a Post-shipment Verification (PSV) at ISRO Telemetry Tracking and Command Network (Istrac), Bangalore, on March 21, 2007.

3. BIS requested a PSV at Istrac, an agency of GOI's Department of Space, Website: www.istrac.vsnl.net.in. Istrac was listed as the Ultimate Consignee and D-Link (India) Ltd. (D-Link), Goa, India, as the Foreign Purchaser for eight Model FES2402 24 Port Lo/Loobase-TX Fastiron Edge switches controlled under ECCN 5A002. The license applicant was Foundry Networks, Inc. (Foundry), San Jose, CA.

4. ECO along with FSN Narayan met with O. Chiranjeevi, Group Director-Program Planning Evaluation Group (PPEG), Chandrashekhar, Manager-Computer Facility, Istrac, and Dr. Rajeev Lochan, Director, INSES & Assistant Scientific Secretary, ISRO. Prashant Agrawal (Agrawal), Under Secretary (AMS), facilitated the meeting. Agrawal was also present at the meeting.

5. Istrac officials were aware of certain BIS regulations. In February 2005, then ECO Rufe along with FSN Narayan conducted five PSVs at Istrac. Of the five, two were favorable and three of them were recommended as Limited and Inconclusive. Istrac officials were cooperative and provided a copy of Istrac Indent for Procurement, D-Link quotation, Istrac Purchase Order placed on D-Link, Form-BIS 711, BIS export license conditions provided to Istrac two days prior to PSV, Cargo receipt for shipping the products from the U.S., dated March 10, 2006, D-Link Invoice, Cargo receipt for products shipped by D-Link to Istrac, Istrac Material Inspection cum receipt voucher along with Foundry switches serial numbers (NOTE: BIS did not provide Post the serial numbers), and correspondence between D-Link, Foundry and Istrac for replacing one faulty switch along with new serial number. Chiranjeevi stated that Foundry is represented by D-Link in India and they dealt with D-Link for this transaction.

6. Chiranjeevi described the various activities that Istrac undertakes along with the end-use of the items on check. He confirmed the stated end-use of the switches. He stated that switches were purchased to upgrade and support internal network infrastructure. The switches are used for local area network connectivity. The switches are installed at Istrac Spacecraft Control Center (SCC) for supporting satellite operations and related test bed setup. Chiranjeevi stated that the Istrac handles remote sensing and science mission satellites through telemetry, tracking, command (TTC). TTCs are connected with the satellite using a

dedicated communication system that provide data to control the satellites operational in the lower orbit. The satellites are primarily used for civil applications such as tele-medicine, tele-education and disaster management. ECO and Narayan were given a tour of SCC. ECO and Narayan saw the switches were integrated in the computer system and were being used. ECO and Narayan were able to verify the serial numbers provided by Istrac for all eight switches. The serial numbers verified are: FW43040190*, FW02062163, FW0206239, FW02062138, FW03060025, FW02062242, FW02062334, FW02062397. (*) Note: the original serial number of the delivered switch was FW02062333. This switch became faulty and was replaced.

17. Istrac is one of the subordinate agencies of the Indian Space Research Organization (ISRO), Department of Space. Istrac was established in 1976 and reconfigured in 1984. It employs 250 technical personnel and 150 administrative staffers. ISRO established a network of ground stations to provide telemetry, tracking and command (TTC) support to satellite and launch vehicle missions. Istrac is primarily responsible for providing TTC support for ISRO's remote sensing satellite missions. Currently ISRO has eight operational and two non-operational remote sensing satellites.

These facilities are grouped under Istrac. Istrac has TTC ground stations in India at Bangalore, Lucknow, Sriharikota, Thiruvananthapuram, and Port Blair Island. In addition Istrac has TTC ground stations in Brunei, Indonesia, Russia and Mauritius. Istrac provides mission support to near-earth satellites and launch vehicle missions. The Bangalore facility that is also Istrac's headquarters, equipped with a multi-mission spacecraft control center. Istrac provides maintenance support for satellites that are in orbit.

18. Recommendation: Post recommends the ISRO Telemetry Tracking and Command Network as a reliable recipient of the controlled U.S. origin commodities. All indications are that the listed commodities are used in accordance with U.S. Export Administration Regulations

(PDAVIS/PNARAYAN) Mulford